## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of the Claims

Claims 1 - 18 (Canceled)

19. (Currently Amended) A method of operating a router in a communication network comprising a plurality of routers, said router having a plurality of local non-broadcast multiple access interfaces to at least one connection-oriented non-broadcast multiple access network, said method comprising the steps of:

assigning a number to each of the local non-broadcast multiple access interfaces of said router wherein each of said assigned numbers is local to said router:

grouping the local non-broadcast multiple access interfaces of said router into connectivity classes using local connectivity information;

encoding information identifying the assigned numbers and the connectivity classes into a link state packet; and

transmitting the link state packet to at least one other router in the communication network.

- 20. (Previously Presented) The method of claim 19 wherein the link state packet is an OSPF link state advertisement.
- 21. (Previously Presented) The method of claim 19 wherein the information identifying the assigned numbers and the connectivity classes is encoded into opaque fields of the link state packet.
- 22. (Previously Presented) The method of claim 19 wherein the at least one connection-oriented non-broadcast multiple access network is an ATM network.